

200 Watt 90° *HYBR-LINE* Coupler



400-1000 MHz

Model: HBL-400-1000-R2N



| | |
|---------------------------|------------------------------|
| Frequency: | 400 - 1000 MHz |
| Amplitude Balance: | ±0.60 dB Max. |
| Power: | 200 Watts CW |
| Phase Balance: | ± 2° Typical |
| Insertion Loss: | 0.25 dB Max. |
| Isolation: | 20 dB Min. |
| VSWR: | 1.20:1 Max. All Ports |

HBL Series Drop-In Hybrid couplers provide High Power dividing or combining while exhibiting excellent phase and amplitude balance over continuous broadband operation. Solid compact designs are able to operate in a wide variety of environments, which include Medical, Industrial, Commercial wireless, Military, and Space. The **P3** library of designs allows for modifications of standard designs to be made quickly and inexpensively to meet specific requirements with short delivery times. Consult factory for special requirements or frequency ranges.

NOTES:

Material: Aluminum Alloy. 6061-T651
 Finish: Chem-Film, Clear Iridite MIL-DTL-5541F
 Operating Temperature: -55°C to +85°C

Specifications subject to change without notice

Technical drawing showing dimensions and lead specifications for the HBL-XXX-XXX-XXX coupler. Dimensions include: .150, .800, .560, .120, .340, .320, 1.000, .700, .10 DIA THRU (4 PLACES), .130 MAX., .02 MAX EYELET PROJECTION MAX. EYELET DIA. .200 (4 PLACES), .065 TYP., LEAD WIDTH .050 (TYP) LENGTH=.150" MIN.

NOTES:

1. TOLERANCE IS ±.020, (UNLESS OTHERWISE SPECIFIED)
2. LEAD WIDTH: .050" TYP.
3. LEAD LENGTH: .150" TYP.
4. LEAD MATERIAL: 99.99% PURE SILVER (.005" THK.)

| PHASE RELATIONSHIP FOR 90° HYBRIDS | | | | |
|------------------------------------|-------------|-------------|-------------|-------------|
| INPUT | OUTPUT | | | |
| | A | B | C | D |
| A | --- | Termination | 0° | -90 |
| B | Termination | --- | -90 | 0° |
| C | 0° | -90 | --- | Termination |
| D | -90 | 0° | Termination | --- |

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